



## UNITED STATES PARTMENT OF COMMERCE United States Patent and Trad mark Offic

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APPLICATION NO.	FILING DATE	FIRST NAMED II	NVENTOR		ATTORNEY DOCKET NO.
09/850,128	05/08/01	GETZENBERG		R	076333/0238
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STEPHEN A. BENT				EPPS,J	
FOLEY & LARI	ONER			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

O9/850,128 GETZENBERG, ROBERT H.  Examiner  Janet L. Epps  1635  Period for Reply  A SHORTEND STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  A SHORTEND STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensioned from reply a syndation user the provision of 3 CPR 1-13(6). In to event, however, may a reply be timerly time of the scanning date		Application No.	Applicant(s)				
Janet L. Epps		09/850,128	GETZENBERG, ROBERT H.				
Th. MALING DATE of this communication appears on th c ver she t with the correspond nee address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE WAILING DATE OF THIS COMMUNICATION. Extensions to term ray be available under the provised of 3 CFR 1.136(a). In ore vern, however, may a reply be limely filed after 30, (6) MCM*TIS than the making take of this communication, reply within the distulory reproved light of the communication.  Extensions for reply is specified under the provised and the communication reply within the distulory reproved light of the bloom, the maximum and within providing with value of the provised prints of the bloom, the making that of this communication, reply within the activation reply within the making date of this communication.  Failure to reply visition the set of extended previole for reply with, by states, causes the application is become ABANCONED (35 U.S. C. § 13.3).  Any reply received by this Office but than them coming and the making date of this communication, even if timely filed, may reduce any  Status  1) □ Responsive to communication(s) filed on 08 May 2001.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) □ is/are allowed.  5) □ Claim(s) □ is/are allowed.  5) □ Claim(s) □ is/are allowed.  6) □ Claim(s) □ is/are allowed.  6) □ Claim(s) □ is/are allowed.  6) □ Claim(s) □ is/are allowed.  7) □ Claim(s) □ is/are allowed.  8) □ Claim(s) □ is/are allowed.  9) □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner.  11 □ The proposed drawing correction filed on □ is/are: a) □ approved b) □ disapproved by the Examiner.  12 □ The proposed drawing correction filed on □ is/are: a) □ approved b	Office Action Summary	Examiner	Art Unit				
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## **DETAILED ACTION**

- 1. Applicants have canceled claims 1-3, 16-17, 21, and 40-43.
- 2. Claims 4-15, 18-20, 22-39, and 44-47 are currently pending in the instant application.

## Election/Restriction

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 4-14, 18-20, 22-23, 27-31, 34-39 and 44-47, drawn to polynucleotides, classified in c lass 536, subclass 23.1.
  - II. Claims 15-17, 22, 24-29, 32-34 drawn to an antibody, classified in class 424, subclass 130.1.
- 4. The inventions are distinct, each from the other because of the following reasons:

The polypeptide of Invention I is related to the antibody of Invention II by virtue of being the cognate antigen necessary for the production of the antibody. Although the polypeptide and antibody are related for this fact, they are distinct inventions because they are physically and functionally distinct chemical entities. Moreover, inventions I and II are distinct because the polypeptide can be used in another materially different process separate from its use for production of the antibody, such as in a method for detection of other molecules that bind to the polypeptide other than antibodies.

5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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- 6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- During a telephone conversation with Stephen Maebius on 8-10-01 a provisional election was made with traverse to prosecute the invention of Group II, claims 15-17, 22, 24-29, and 32-34. Applicant in replying to this Office action must make affirmation of this election.
- 8. Claims 4-14, 18-20, 23, 30-31, 35-39, and 44-47 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.
- 9. Claims 15, 22, 24-29, and 32-34 are currently under examination, as being drawn to an elected invention. The instant claims will be examined to the extent that they read on an antibody or the use of an antibody.

## Claim Rejections - 35 USC § 112

10. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

11. Claims 15, 22, 24-29, and 32-34 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The instant claims read on an antibody which binds to the protein encoded by the polynucleotide sequence of claim 4, wherein said polynucleotide sequence encoding a nuclear

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matrix protein that is present in normal renal cells but absent in cancerous renal cells, or that is absent in normal renal cells but present in cancerous renal cells or a fragment thereof.

The claimed invention reads on a genus of antibodies targeted to a broad genus of nuclear matrix proteins that are encoded by polynucleotides of unknown sequence. The polynucleotides which encode the proteins which bind the claimed antibody of the present invention encompass all corresponding sequences from other species, mutated sequences, allelic variants, splice variants, sequences that have an unspecified degree of identity (similarity, homology), and so forth. The specification provides insufficient written description to support the genus encompassed by the instant claims. Moreover, the instant claims do not recite any particular structural information that may be associated with the genus of sequences encompassed by the claimed invention.

<u>Vas-Cath Inc. v. Mahurkar</u>, 19 USPQ2d 1111, makes clear that "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See <u>Vas-Cath</u> at page 1116.)

The skilled artisan cannot envision the detailed chemical structure of the encompassed polynucleotides and/or proteins, regardless of the complexity or simplicity of the method of isolation. Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method for isolating it. The nucleic acid itself is required. See Fiers v. Revel, 25 USPQ2d 1601, 1606 (CAFC 1993) and Amgen Inc. V. Chugai Pharmacentical Co. Ltd., 18 USPQ2d 1016. In Fiddes v. Baird, 30 USPQ2d 1481, 1483, claims directed to mammalian FGF's were found unpatentable due to lack of written description for the broad class. The specification provided only the bovine sequence.

Finally, <u>University of California v. Eli Lilly and Co.</u>, 43 USPQ2d 1398, 1404, 1405 held that:

...To fulfill the written description requirement, a patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention." Lockwood v. American Airlines, Inc.

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, 107 F.3d 1565, 1572, 41 USPQ2d 1961, 1966 (1997); In re Gosteli, 872 F.2d 1008, 1012, 10 USPQ2d 1614, 1618 (Fed. Cir. 1989) (" [T]he description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed."). Thus, an applicant complies with the written description requirement "by describing the invention, with all its claimed limitations, not that which makes it obvious," and by using "such descriptive means as words, structures, figures, diagrams, formulas, etc., that set forth the claimed invention." Lockwood, 107 F.3d at 1572, 41 USPQ2d at 1966.

An adequate written description of a DNA, such as the cDNA of the recombinant plasmids and microorganisms of the '525 patent, "requires a precise definition, such as by structure, formula, chemical name, or physical properties," not a mere wish or plan for obtaining the claimed chemical invention. *Fiers v. Revel*, 984 F.2d 1164, 1171, 25 USPQ2d 1601, 1606 (Fed. Cir. 1993). Accordingly, "an adequate written description of a DNA requires more than a mere statement that it is part of the invention and reference to a potential method for isolating it; what is required is a description of the DNA itself." Id. at 1170, 25 USPQ2d at 1606.

The name cDNA is not itself a written description of that DNA; it conveys no distinguishing information concerning its identity. While the example provides a process for obtaining human insulin-encoding cDNA, there is no further information in the patent pertaining to that cDNA's relevant structural or physical characteristics; in other words, it thus does not describe human insulin cDNA. Describing a method of preparing a cDNA or even describing the protein that the cDNA encodes, as the example does, does not necessarily describe the cDNA itself. No sequence information indicating which nucleotides constitute human cDNA appears in the patent, as appears for rat cDNA in Example 5 of the patent. Accordingly, the specification does not provide a written description of the invention of claim 5.

Applicant's specification does not disclose a sufficient number of species of the claimed genus polynucleotides that encode the nuclear matrix proteins that are bound by the antibodies of the instant invention, which would allow one of skill in the art to predict the structures of all members of the claimed genus of compounds. One of skill in the art would reasonably conclude that the disclosure fails to provide a representative number of species to describe the genus.

Thus, applicant was not in possession of the claimed genus. Applicant is reminded that <u>Vas-Cath</u> makes clear that the written description provision of 35 USC 112 is severable from its enablement provision. (See page 1115.)

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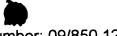
12. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

13. Claims 16-17, 22 and 24-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 16-17, 22, and 24-28 recite a method for detecting a cell proliferative disorder in a subject, comprising contacting a cellular component from the subject with a reagent that binds to a cellular component associated with a cell proliferative disorder. Claim 29 recites a method for treating a cell proliferative disorder.

Claims 16-17, 22, and 24-29 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting an essential step, such omission does not set forth the method in clear and unambiguous terms. See MPEP § 2172.01. The omitted step is a correlation, or recapitulation step at the end of the claim that restates the preamble.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L Epps whose telephone number is 703-308-8883. The examiner can normally be reached on Mondays through Friday, 9:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached on (703)-308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-746-5143 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Janet L Epr

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JLE

August 13, 2001